

## Chemistry General Science Test Hard Mode

Sr	Questions	Answers Choice
1	2 g oxygen contains number of atoms equal to that in	A. 0.5 g of hydrogen B. 4 g of sulphur C. 7 g of nitrogen D. 2.3 g of sodium
2	The last orbit of argon would have electrons	A. 8 B. 18 C. 2 D. 6
3	The mass of the neutron is of the order of	A. $10^{-23}$ kg B. $1.44444465637207 \times 10^{-24}$ kg C. $1.44444465637207 \times 10^{-26}$ kg D. $1.44444465637207 \times 10^{-27}$ kg
4	Which of the following compounds has the lowest anion to cation size ratio?	A. LiF B. NaF C. CsI D. CsF
5	With increasing principle quantum number the energy difference between adjacent energy levels in H atom	A. Decreases B. Increases C. Remains constant D. Decreases for low value of Z and increases for higher value of Z.
6	Which of the following elements is most electronegative?	A. Oxygen B. Chlorine C. Nitrogen D. Fluorine
7	The rate of reaction between A and B increases by a factor of 100 when the concentration with respect to A is increased 10 folds the order of reaction w.r.t A is	A. 10 B. 1 C. 4 D. 2
8	A solution of sodium sulphate was electrolysed using some inert electrodes. The products at the electrodes are	A. $O_2$ , $H_2$ B. $O_2$ , Na C. $O_2$ , $SO_2$ D. $O_2$ , S
9	The rate at which a substance reacts depends on its	A. Atomic weight B. Equivalent weight C. Molecular weight D. Active mass
10	At 500 K the equilibrium constant for reaction $cis-C_2H_2Cl_2 \rightleftharpoons trans-C_2H_2Cl_2$ is 0.6. At the same temperature the equilibrium constant for the reaction $trans-C_2H_2Cl_2 \rightleftharpoons cis-C_2H_2Cl_2$ will be	A. 0.60 B. 1.67 C. 0.66 D. 2.6
11	The relative rate of diffusion of a gas (molecular weight - 128) as compared to oxygen is	A. 2 times B. $1/4$ C. $1/8$ D. $1/16$

12	In cold countries ethylene glycol is added to water in radiators of cars during winter It result in	A. Lowering in b.pt. B. Reducing viscosity C. Reducing specific heat D. Lowering in freezing pt.
13	Which of the following alcohols cannot be produced by treatment of aldehydes or ketones with $\text{NaBH}_4$ or $\text{LiAlH}_4$ ?	A. $\text{1-Propanol}$ B. $\text{2-Propanol}$ C. $\text{2-Methyl-2-propanol}$ D. $\text{Ethanol}$
14	The halide which is not hydrolysed is	A. $\text{SiCl}_4$ B. $\text{SiF}_4$ C. $\text{CCl}_4$ D. $\text{PbCl}_4$
15	Which one is not a pollutant normally?	A. Hydrocarbons B. Carbon dioxide C. Carbon monoxide D. Sulphur dioxide
16	The number of atoms in 0.0004 g of magnesium is close to	A. 24 B. $2 \times 10^{20}$ C. $10^{20}$ D. $6.02 \times 10^{23}$
17	How many moles of Helium gas occupy 22.4 L at $0^\circ\text{C}$ at 1 atm.Pressure?	A. 0.11 B. 0.90 C. 1.0 D. 1.11
18	Which is the most amphoteric?	A. $\text{Na}_2\text{O}$ B. $\text{MgO}$ C. $\text{Al}_2\text{O}_3$ D. $\text{CaO}$
19	Maximum number of active hydrogens are present in	A. Acetic-acid B. Glycerol C. Methane D. Methanol
20	A chemical reaction A B is said to be in equilibrium when	A. Complete conversion of A to B has taken place B. Conversion of A to B is only 50% complete C. Only 10% conversion of A to B has taken place D. The rate of transformation of A to B is just equal to rate of transformation of B to A in the system